20.Hose and Pipe

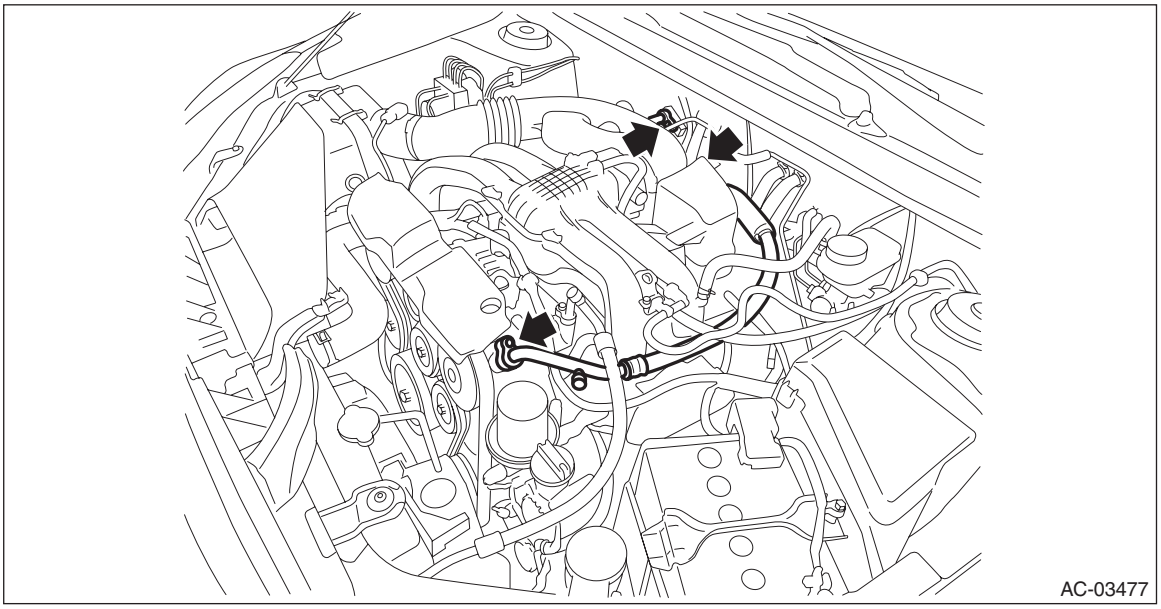
A: REMOVAL

1. LOW-PRESSURE HOSE

1) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>
2) Remove the intake boot. (Gasoline engine model) <Ref. to IN(H4DO(w/o HEV))-12, REMOVAL, Air Intake Boot.>

CAUTION:
Move aside the intake boot to perform the operation without disconnecting the PCV hose.
3) Remove the air cleaner case. (HEV model) <Ref. to IN(H4DO(HEV))-6, REMOVAL, Air Cleaner Case.>
4) Remove the bolts and remove the hose - pressure suction.

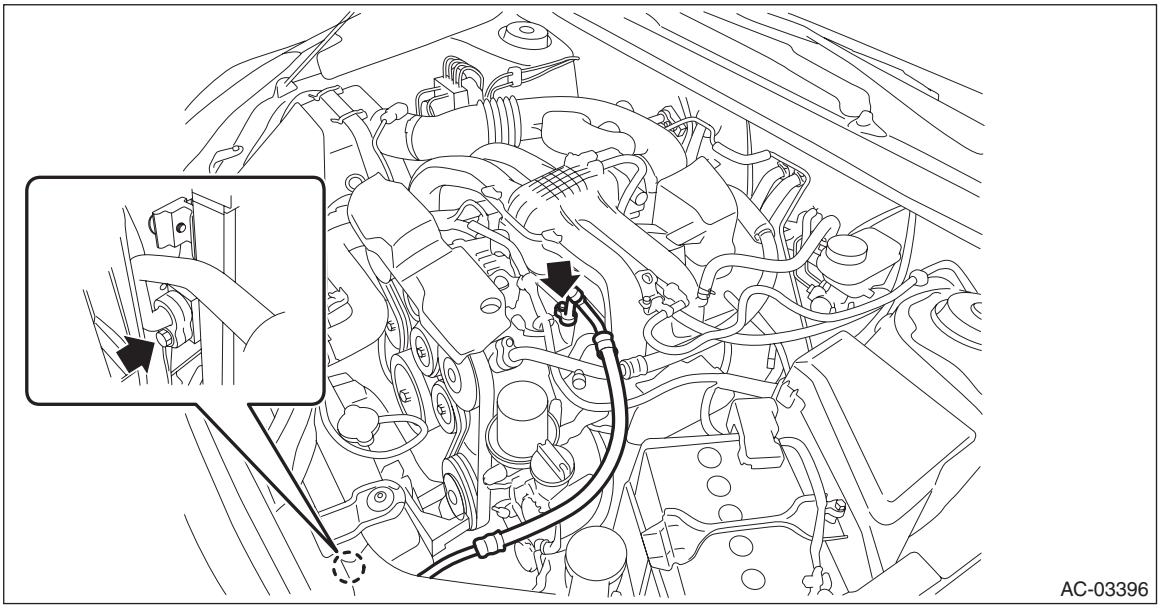
CAUTION:
- **Do not apply excessive force to the hose.**
- **Seal the disconnected hose, compressor and engaging part of expansion valve with a plug or vinyl tape to prevent foreign matter from entering.**



2. HIGH-PRESSURE HOSE

1) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>
2) Remove the reservoir tank. <Ref. to CO(H4DO(w/o HEV))-97, REMOVAL, Reservoir Tank.>
3) Remove the bolts and remove the hose - pressure discharge.

CAUTION:
• Do not apply excessive force to the hose.
• Seal the disconnected hose, compressor and engaging part of compressor with a plug or vinyl tape to prevent foreign matter from entering.



3. A/C PIPE

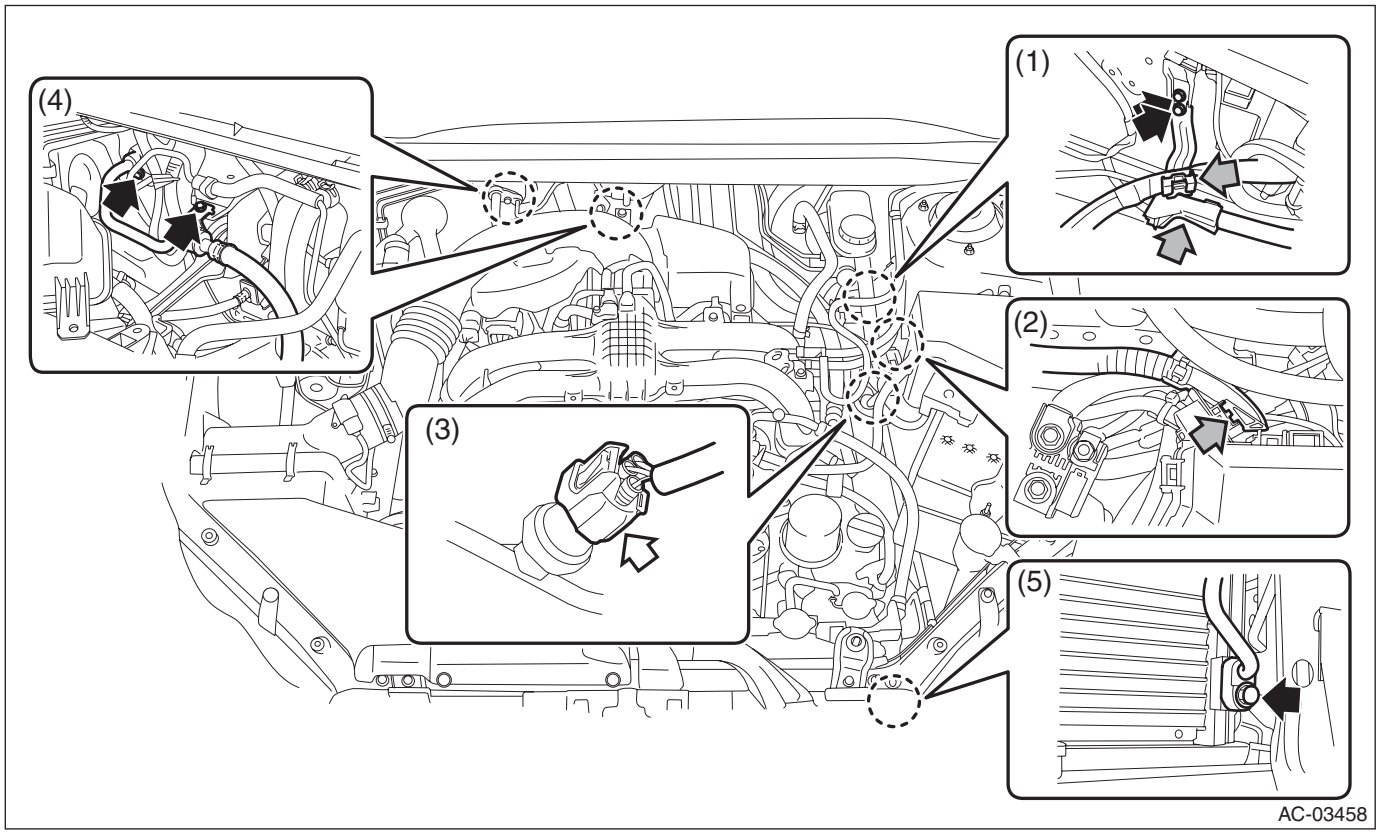
1) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>
2) Remove the battery. (Gasoline engine model) <Ref. to SC(H4DO(w/o HEV))-52, REMOVAL, Battery.>
3) Remove the 12 volt auxiliary battery. (HEV model) <Ref. to SC(H4DO(HEV))-39, 12 VOLT AUXILIARY BATTERY, REMOVAL, Battery.>
4) Remove the reservoir tank. <Ref. to CO(H4DO(w/o HEV))-97, REMOVAL, Reservoir Tank.>
5) Remove the intake boot. (Gasoline engine model) <Ref. to IN(H4DO(w/o HEV))-12, REMOVAL, Air Intake Boot.>

CAUTION:
Move aside the intake boot to perform the operation without disconnecting the PCV hose.
6) Remove the air cleaner case. (HEV model) <Ref. to IN(H4DO(HEV))-6, REMOVAL, Air Cleaner Case.>
7) Remove the pipe - evaporator cooling.
(1) Remove the cable clamps and bolts, and remove the battery cable stay.
(2) Remove the battery cable clamp. (HEV model)
(3) Disconnect the pressure switch connector.
(4) Remove the bolts, and detach the hose - pressure suction from the expansion valve - cooling.

CAUTION:
• Do not apply excessive force to the hose.
• Seal the disconnected hose and engaging part of expansion valve with a plug or vinyl tape to prevent foreign matter from entering.
(5) Remove the bolts, and detach the pipe - evaporator cooling from the condenser assembly - air conditioner.

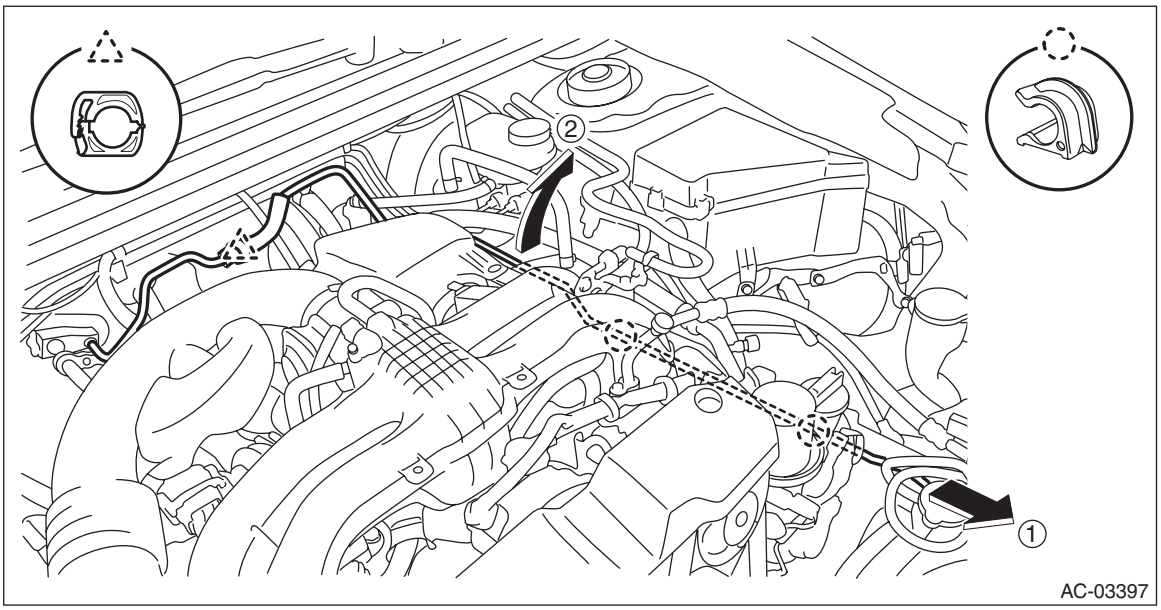
CAUTION:
• Do not apply excessive force to the pipe.

• Seal the disconnected pipe and engaging part of condenser with a plug or vinyl tape to prevent foreign matter from entering.



(6) Remove the pipe - evaporator cooling from the clip and expansion valve, and remove the pipe - evaporator cooling in numerical order as shown in the figure.

CAUTION:
• Do not apply excessive force to the pipe.
• Seal the disconnected pipe and engaging part of expansion valve with a plug or vinyl tape to prevent foreign matter from entering.
• Do not pull the harness and cable forcibly.



B: INSTALLATION

CAUTION:
• If the hose and pipe have been replaced, add an appropriate amount of compressor oil to the compressor. <Ref. to AC-37, ADJUSTMENT, Compressor Oil.>
• Replace the O-rings with new parts, and then apply compressor oil.
• When connecting hoses and pipes, do not apply excessive force. After installing, check that no torsion or excessive tension applied to the hoses.
1) Install each part in the reverse order of removal.

Tightening torque:
Air conditioning unit: <Ref. to AC-12, AIR CONDITIONING UNIT, COMPONENT, General Description.>
Battery cable stay: 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)
2) Charge refrigerant. <Ref. to AC-30, PROCEDURE, Refrigerant Charging Procedure.>

C: INSPECTION

1) Check the hoses for cracks, damage and expansion. Replace the hose if faulty.
2) Check the pipes for crack or damage. Replace the pipe if faulty.